



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Eydelman, et al.

Serial No.: 09/738,235

Filed: December 15, 2000

For: MRI ANTENNA

Group Art Unit: 2862

Examiner: Dixomara Vargas

260/147

Ext. w/att.
12/Elec/A
1-Step to
3-18-02

RESPONSE TO RESTRICTION REQUIREMENT AND AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

In response to the Office Action dated January 3, 2002, the above-identified patent application is being amended as shown below in the Clean Version of the Amendments and as shown in the Marked Up Version of the Amendments attached hereto.

Clean Version of the Amendments

In the Specification

The paragraph on page 1, lines 4-6 should read as follows:

a' The present application claims the benefit of U.S.S.N. 60/172,199, filed on December 17, 1999, assigned to the assignee of the present application and incorporated by reference herein.

aa The paragraph on page 1, lines 8-11 should read:

The present application is related to U.S.S.N. 09/738,236, and U.S.S.N. 09/738,233, both filed on the same day as the present application, assigned to the assignee of the present application and incorporated by reference, herein.

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In the Claims

Claim 9 has been amended to read as follows:

9. (Amended) The MRI antenna of Claim 8, further comprising a second coaxial cable unit adjacent to the first coaxial cable unit such that the first and second coaxial cable units are inductively coupled during operation, the second coaxial cable unit comprising a second inner conductor and a second outer conductor, each having first and second ends, respectively, wherein the second outer conductor substantially surrounds the second inner conductor and the first end of the inner conductor is electrically connected to the second end of the inner conductor across a capacitor and the first end of the outer conductor is connected to the second end of the outer conductor across a capacitor;

the second inner conductor comprising a first section between the first end and a third end and a second section between the second end and a fourth end, the third end and the fourth end being electrically connected across a capacitor;

the second outer conductor comprising a first section between the first end and a third end and a second section between the second end and a fourth end, the second and fourth ends being electrically connected across a capacitor.

The following claims have been added:

11. (New) The MRI antenna of Claim 8, further comprising a support supporting the first and second sections in a same plane.--

12. (New) An MRI antenna, comprising:

detecting means for directly detecting magnetic resonance signals emitted by a subject; and

receiving means for inductively receiving signals corresponding to the detected magnetic resonance signals from the detecting means, and for providing received signals for analysis;

wherein the detecting means shields the receiving means from direct detection of the magnetic resonance signals means.--

93. (New) The MRI antenna of Claim 87, further comprising filtering means for filtering the detected signals and the received signals.

Remarks

I. Status of the Application

Claims 1-88 are currently pending. Claim 9 has been amended. Claims 86 – 88 have been added.

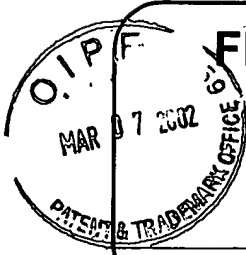
II. The Restriction Requirement

In an Office Action dated January 3, 2002 in the above-identified patent application, the Examiner required restriction between the claims of Group I (claims 1-70 and 84), drawn to an MRI antenna, Group II (claims 71-77 and 85), drawn to an MRI system, and Group III (claims 78-83), drawn to a method of detecting MR signals.

Applicant elects the claims of Group I, with traverse.

It is respectfully submitted that restriction is not proper between Group I and Group II. The MRI systems defined by Claims 71-77 and 85 of Group II include antennas substantially similar to the antennas defined by at least certain of the apparatus claims of Group I. In particular, the MRI system defined by Claim 71 includes an antenna substantially similar to the antenna defined in apparatus Claim 54; the MRI system defined by Claim 72 includes an antenna substantially similar

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FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.



TOTAL AMOUNT OF PAYMENT (\$)

138

Complete if Known

Application Number	09/738,235
Filing Date	December 15, 2000
First Named Inventor	Eydelman et al.
Examiner Name	Dixomara Vargas
Group / Art Unit	2862
Attorney Docket No.	260/147

METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)																																																																																																																																																		
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:</p> <p>Deposit Account Number: 12-2475</p> <p>Deposit Account Name: Lyon & Lyon</p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17</p> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p>		<p>3. ADDITIONAL FEES</p> <table><thead><tr><th>Fee Code</th><th>Large Entity Fee (\$)</th><th>Small Entity Fee (\$)</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>105</td><td>130</td><td>205</td><td>65</td><td></td></tr><tr><td>127</td><td>50</td><td>227</td><td>25</td><td></td></tr><tr><td>139</td><td>130</td><td>139</td><td>130</td><td></td></tr><tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td></td></tr><tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td></td></tr><tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td></td></tr><tr><td>115</td><td>110</td><td>215</td><td>55</td><td></td></tr><tr><td>116</td><td>390</td><td>216</td><td>195</td><td></td></tr><tr><td>117</td><td>890</td><td>217</td><td>445</td><td></td></tr><tr><td>118</td><td>1,390</td><td>218</td><td>695</td><td></td></tr><tr><td>128</td><td>1,890</td><td>228</td><td>945</td><td></td></tr><tr><td>119</td><td>310</td><td>219</td><td>155</td><td></td></tr><tr><td>120</td><td>310</td><td>220</td><td>155</td><td></td></tr><tr><td>121</td><td>270</td><td>221</td><td>135</td><td></td></tr><tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td></td></tr><tr><td>140</td><td>110</td><td>240</td><td>55</td><td></td></tr><tr><td>141</td><td>1,240</td><td>241</td><td>620</td><td></td></tr><tr><td>142</td><td>1,240</td><td>242</td><td>620</td><td></td></tr><tr><td>143</td><td>440</td><td>243</td><td>220</td><td></td></tr><tr><td>144</td><td>600</td><td>244</td><td>300</td><td></td></tr><tr><td>122</td><td>130</td><td>122</td><td>130</td><td></td></tr><tr><td>123</td><td>130</td><td>123</td><td>130</td><td></td></tr><tr><td>126</td><td>180</td><td>126</td><td>180</td><td></td></tr><tr><td>581</td><td>40</td><td>581</td><td>40</td><td></td></tr><tr><td>146</td><td>710</td><td>246</td><td>355</td><td></td></tr><tr><td>149</td><td>710</td><td>249</td><td>355</td><td></td></tr><tr><td>179</td><td>740</td><td>279</td><td>370</td><td></td></tr><tr><td>169</td><td>900</td><td>169</td><td>900</td><td></td></tr></tbody></table>		Fee Code	Large Entity Fee (\$)	Small Entity Fee (\$)	Fee Description	Fee Paid	105	130	205	65		127	50	227	25		139	130	139	130		147	2,520	147	2,520		112	920*	112	920*		113	1,840*	113	1,840*		115	110	215	55		116	390	216	195		117	890	217	445		118	1,390	218	695		128	1,890	228	945		119	310	219	155		120	310	220	155		121	270	221	135		138	1,510	138	1,510		140	110	240	55		141	1,240	241	620		142	1,240	242	620		143	440	243	220		144	600	244	300		122	130	122	130		123	130	123	130		126	180	126	180		581	40	581	40		146	710	246	355		149	710	249	355		179	740	279	370		169	900	169	900	
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SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Brandon N. Sklar	Registration No. Attorney/Agent	31,667,
Signature		Telephone	(914) 681-8851
		Date	2/2/02

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